

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A ~~portable electronic device apparatus~~ comprising:
a wireless communication module to communicate with an access device and a plurality of remote electronic devices ~~separate access device in a wireless fashion~~;
a data storage module to store emulation data used by a portable electronic device to emulate the plurality of remote electronic devices ~~an electronic apparatus~~; and
a switch to select a remote electronic device from the plurality of remote electronic devices for the portable electronic device to emulate; and
a controller to
control the communication of the emulation data to the access device and the selected remote electronic device, and
emulate the selected remote electronic device, wherein the emulating comprises the portable electronic device possessing functionality of the selected remote electronic device ~~access device to output to a user to emulate the electronic apparatus~~.
2. (Currently Amended) The ~~device apparatus~~ of Claim 1, wherein the data storage module stores display data, the portable electronic device being configured to communicate the display data to the access device to provide a display layout that simulates the physical appearance of the selected remote electronic device ~~electronic apparatus~~.

3. (Currently Amended) The ~~device~~apparatus of Claim 1-2, wherein the controller causes the portable electronic device to simultaneously emulate multiple remote electronic devices from the plurality of remote electronic device~~the display layout is defined by a plurality of skins that are stored on the portable electronic device and communicated in a wireless fashion to the access device.~~
4. (Currently Amended) The ~~device~~apparatus of Claim 2, wherein the display layout includes function buttons that resemble function buttons on the selected remote electronic device~~electronic apparatus~~ in appearance and which, when activated by a pointing device, cause the portable electronic device to execute similar functions to the function buttons on the selected remote electronic device~~electronic apparatus~~.
5. (Currently Amended) The ~~device~~apparatus of Claim 1, wherein the wireless communication module is a radio frequency (RF) device that communicates over a limited range using a standard wireless communication protocol.
6. (Currently Amended) The ~~device~~apparatus of Claim 5, wherein the standard wireless communication protocol is selected from the group including Bluetooth IEEE 802.15, IEEE 802.11a, and IEEE 802.11b.
7. (Currently Amended) The ~~device~~apparatus of Claim 1, wherein the access device includes a user multimedia interface, the portable electronic device being configured to communicate the emulation data to the user multimedia interface to provide an output to a user.

8. (Currently Amended) The ~~device-apparatus~~ of Claim 7, wherein the access device defines an interface with the user, and the multimedia interface provides an audio output device to output audio sourced from the portable electronic device.
9. (Currently Amended) The ~~device-apparatus~~ of Claim 8, wherein the plurality of remote electronic device comprises one or more of: the portable electronic device ~~emulates the functionality of at least one electronic apparatus selected from the group including an MP3 player, a personal digital assistant (PDA), an electronic book, a dictionary, a calculator, a cellular telephone, a calorie counter, a game playing device, and a smart card.~~
10. (Currently Amended) The ~~device-apparatus~~ of Claim 7, wherein the portable electronic device determines if the access device has the output capabilities to provide the functionality of the selected remote electronic device ~~electronic apparatus~~ prior to communicating the display data and the emulation data to the access device.
11. (Currently Amended) The ~~device-apparatus~~ of Claim 1, wherein communication uses Universal Plug and Play standards.
12. (Currently Amended) An emulation system comprising:
a portable electronic device having
a wireless communication module to communicate with an access device
and a plurality of remote electronic devices.

a data storage module to store emulation data used by the portable
electronic device to emulate the plurality of remote electronic
devices,
a switch to select a remote electronic device from the plurality of remote
electronic devices for the portable electronic device to emulate,
and
a controller to
control the communication of the emulation data to the selected
remote electronic device, and
emulate the selected remote electronic device, wherein the
emulating comprises the portable electronic device
possessing functionality of the selected remote electronic
device to emulate functionality provided by an electronic
apparatus, the portable electronic device including a
wireless communication module and a data storage module
to store emulation data; and
a the separate access device including a wireless communication interface to
communicate with the wireless communication module when the portable
electronic device is within a wireless communication range of the access
device, the portable electronic device communicating emulation data to
the access device to output to a user to emulate the selected remote
electronic device-electronic apparatus.

13. (Currently Amended) The system of Claim 12, wherein the data storage module stores display data, and the portable electronic device being configured to

communicate the display data to the access device to provide a display layout that simulates the physical appearance of the selected remote electronic device ~~electronic apparatus~~.

14. (Previously Presented) The system of Claim 13, wherein the display layout is defined by a plurality of skins that are stored on the portable electronic device.
15. (Currently Amended) The system of Claim 13, wherein the display layout includes function buttons that resemble function buttons on the selected remote electronic device ~~electronic apparatus~~ in appearance and which, when activated by a pointing device, cause the system to execute similar functions to the function buttons on the selected remote electronic device ~~electronic apparatus~~.
16. (Previously Presented) The system of Claim 12, wherein the wireless communication module and interface are radio frequency (RF) devices that communicate over a limited range using a standard wireless communication protocol.
17. (Previously Presented) The system of Claim 16, wherein the standard wireless communication protocol is selected from the group including Bluetooth IEEE 802.15, IEEE 802.11a, and IEEE 802.11b.
18. (Currently Amended) The system of Claim 12, wherein the plurality of remote electronic device comprises one or more of: the portable electronic device ~~emulates the functionality of the electronic apparatus selected from the group~~

~~including~~ an MP3 player, a personal digital assistant (PDA), an electronic book, a dictionary, a calculator, a cellular telephone, a calorie counter, a game playing device, and a smart card.

19. (Previously Presented) The system of Claim 12, wherein the access device exclusively defines an interface with the user and the emulation data includes at least one of audio data , text data, and numeric data.
20. (Currently Amended) A method comprising:
monitoring when a portable electronic device is within a wireless communication range of an access device,~~the portable electronic device emulating the functionality of an electronic apparatus; and~~
wirelessly communicating emulation data stored on the portable electronic device to the access device and a plurality of remote electronic devices in a wireless fashion to provide an output to a user;
selecting a remote electronic device from the plurality of remote electronic devices for the portable electronic device to emulate; and
emulating the selected remote electronic device, wherein the emulating comprises the portable electronic device possessing functionality of the selected remote electronic device.
21. (Currently Amended) The method of Claim 20, which includes communicating display data to the access device to provide a display layout that simulates the physical appearance of the selected remote electronic device~~electronic apparatus~~.

22. (Previously Presented) The method of Claim 21, wherein the display data defines a plurality of skins that provide the display layout.
23. (Currently Amended) The method of Claim 21, which includes:
communicating display data that defines a plurality of function buttons that
resemble function buttons on the selected remote electronic device
~~electronic apparatus~~ in appearance;
monitoring when a pointing device selects a particular function button;
executing the function on the portable electronic device; and
communicating emulation data to the access device to output to the user.
24. (Previously Presented) The method of Claim 20, which includes communicating between the portable electronic device and the access device using a standard radio frequency (RF) wireless communication protocol.
25. (Previously Presented) The method of Claim 20, wherein the standard wireless communication protocol is selected from the group including Bluetooth IEEE 802.15, IEEE 802.11a, and IEEE 802.11b.
26. (Currently Amended) The method of Claim 20, the plurality of remote electronic device comprises one or more of: ~~which includes emulating the functionality of at least one electronic apparatus selected from the group including an MP3 player, a personal digital assistant (PDA), an electronic book, a dictionary, a calculator, a cellular telephone, a calorie counter, a game playing device, and a smart card.~~

27. (Previously Presented) The method of Claim 21, which includes determining if the access device has the capability to provide the display layout and output the emulation data prior to communicating the display data and emulation data to the access device.
28. (Previously Presented) The method of Claim 20, wherein the communicating uses Universal Plug and Play standards.
29. (Currently Amended) A machine-readable medium having stored thereon data representing ~~stets~~ sets of instructions which, when executed by a machine, cause the machine to:
- monitor when a portable electronic device is within a wireless communication range of an access device; and
- wirelessly communicate emulation data stored on the portable electronic device to the access device and a plurality of remote electronic devices in a wireless fashion to output to a user to emulate the electronic apparatus;
- select a remote electronic device from the plurality of remote electronic devices for the portable electronic device to emulate; and
- emulate the selected remote electronic device, wherein the emulating comprises the portable electronic device possessing functionality of the selected remote electronic device.
30. (Currently Amended) The machine-readable medium of Claim 29, wherein communicating display data to the access device in a wireless fashion, and the

display data defining a display layout that simulates a physical appearance of the selected remote electronic device ~~electronic apparatus~~.

31. (Previously Presented) The machine-readable medium of Claim 29, wherein the display data defines a plurality of skins that are displayed on the display.
32. (Currently Amended) The machine-readable medium of Claim 29, wherein the sets of instructions, when executed by the machine, further cause the machine to: communicate display data that defines a plurality of function buttons that resemble function buttons on the selected remote electronic device ~~electronic apparatus~~ in appearance; monitor when a pointing device selects a particular function button; execute the function on the portable electronic device; and communicate emulation data to the access device to output to the user.
33. (Previously Presented) The machine-readable medium of Claim 29, wherein communication between the portable electronic device and the access device is by way of a standard radio frequency (RF) wireless communication protocol.
34. (Previously Presented) The machine-readable medium of Claim 33 wherein the standard wireless communication protocol is selected from the group including Bluetooth IEEE 802.15, IEEE 802.11a, and IEEE 802.11b.
35. (Currently Amended) The machine-readable medium of Claim 29, the plurality of remote electronic device comprises one or more of: ~~wherein the sets of~~

~~instructions, when executed by the machine, further cause the machine to emulate the functionality of at least one electronic apparatus selected from the group including an MP3 player, a personal digital assistant (PDA), an electronic book, a dictionary, a calculator, a cellular telephone, a calorie counter, a game playing device, and a smart card.~~

36. (Currently Amended) The machine-readable medium of Claim 30, wherein the sets of instructions, when executed by the machine, further cause the machine to determine if the access device has the capability to provide the display layout and output the emulation data prior to communicating the emulation data to the access device.
37. (Previously Presented) The machine-readable medium of Claim 29, wherein the sets of instructions, when executed by the machine, further cause the machine to monitor when the portable electronic device and the access device are within a predetermined physical range, the physical range defining a restricted zone within which the access device assumes that a user bearing the portable electronic device requires use of the access device.
38. (Previously Presented) The machine-readable medium of Claim 29, wherein communication uses Universal Plug and Play standards.